

For Research Use Only

# CoraLite® Plus 488-conjugated UAP1 Monoclonal antibody



Catalog Number:CL488-67545

## Basic Information

<b>Catalog Number:</b> CL488-67545	<b>GenBank Accession Number:</b> BC009377	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 6675	<b>CloneNo.:</b> 2C7B2
<b>Source:</b> Mouse	<b>Full Name:</b> UDP-N-acetylglucosamine pyrophosphorylase 1	<b>Recommended Dilutions:</b> IF 1:50-1:500
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 505 aa, 57 kDa	<b>Excitation/Emission maxima wavelengths:</b> 493 nm / 522 nm
<b>Immunogen Catalog Number:</b> AG9513	<b>Observed MW:</b> 57-59 kDa	

## Applications

<b>Tested Applications:</b> FC (Intra)	<b>Positive Controls:</b> IF : PC-3 cells,
<b>Species Specificity:</b> Human	

## Background Information

UAP1 can convert UTP and GlcNAc-1-P into UDP-GlcNAc, it can also convert UTP and GalNAc-1-P into UDP-GalNAc. There are three isoforms of UAP1, among which isoform AGX1 has 2 to 3 times higher activity towards GalNAc-1-P, while isoform AGX2 has 8 times more activity towards GlcNAc-1-P. It has been reported that UAP1 is specific and highly expressed in prostate cancer. UAP1 can protect cells against inhibitors of N-linked glycosylation. UAP1 may play an important role in maintaining INS responsiveness. 67545-1-Ig detects 57 and 59 kDa isoforms in SDS-PAGE. (PMID:25241896)

## Storage

**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

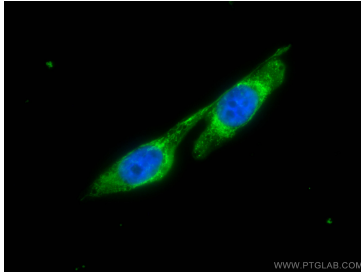
For technical support and original validation data for this product please contact:

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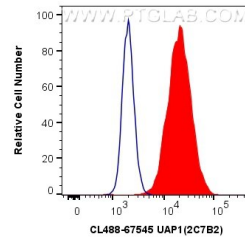
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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed PC-3 cells using CoraLite® Plus 488 UAP1 antibody (CL488-67545, Clone: 2C7B2) at dilution of 1:200.



1X10<sup>6</sup> PC-3 cells were intracellularly stained with 0.4 ug CoraLite® Plus 488 Anti-Human UAP1 (CL488-67545, Clone:2C7B2) (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).